

FIG. 1A

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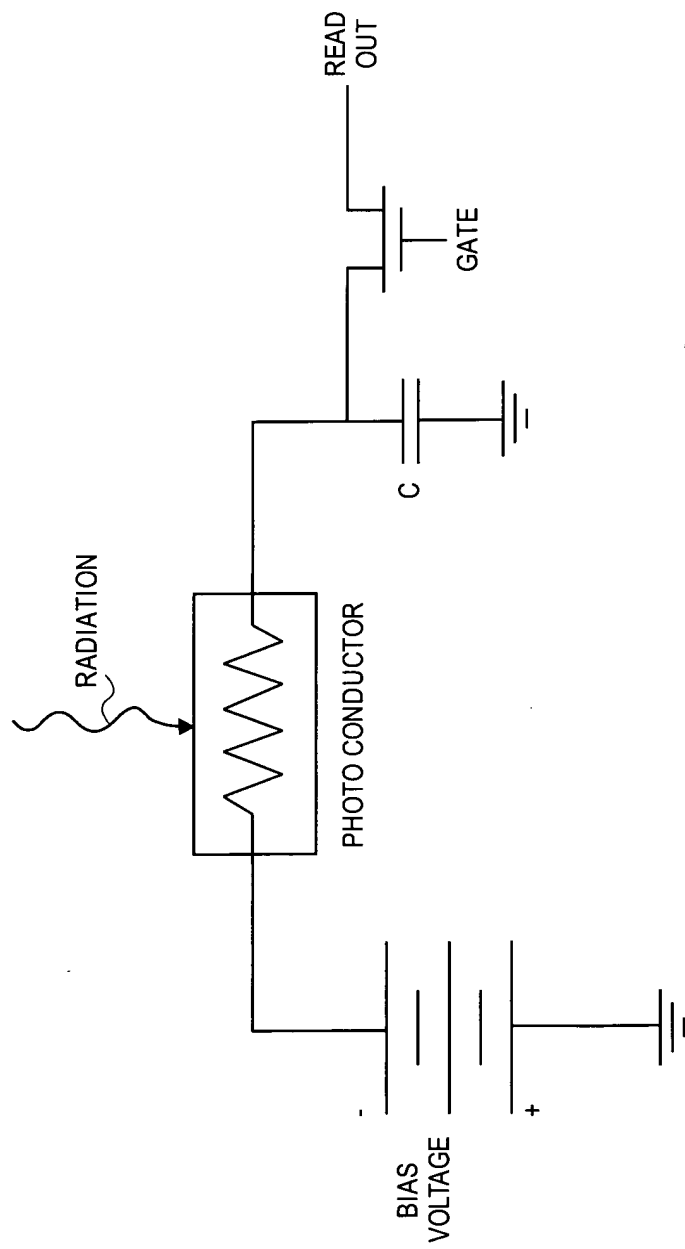


FIG. 1B

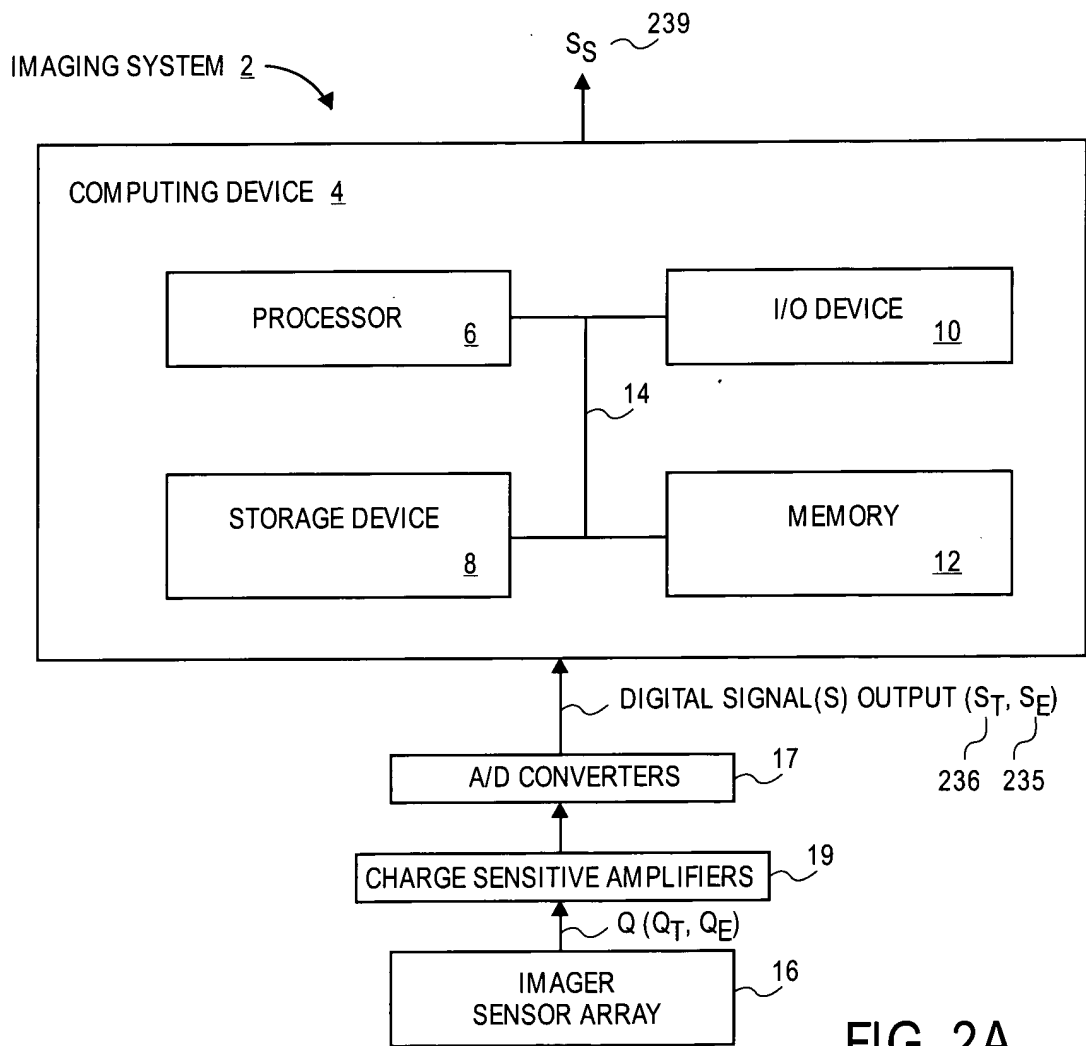


FIG. 2A

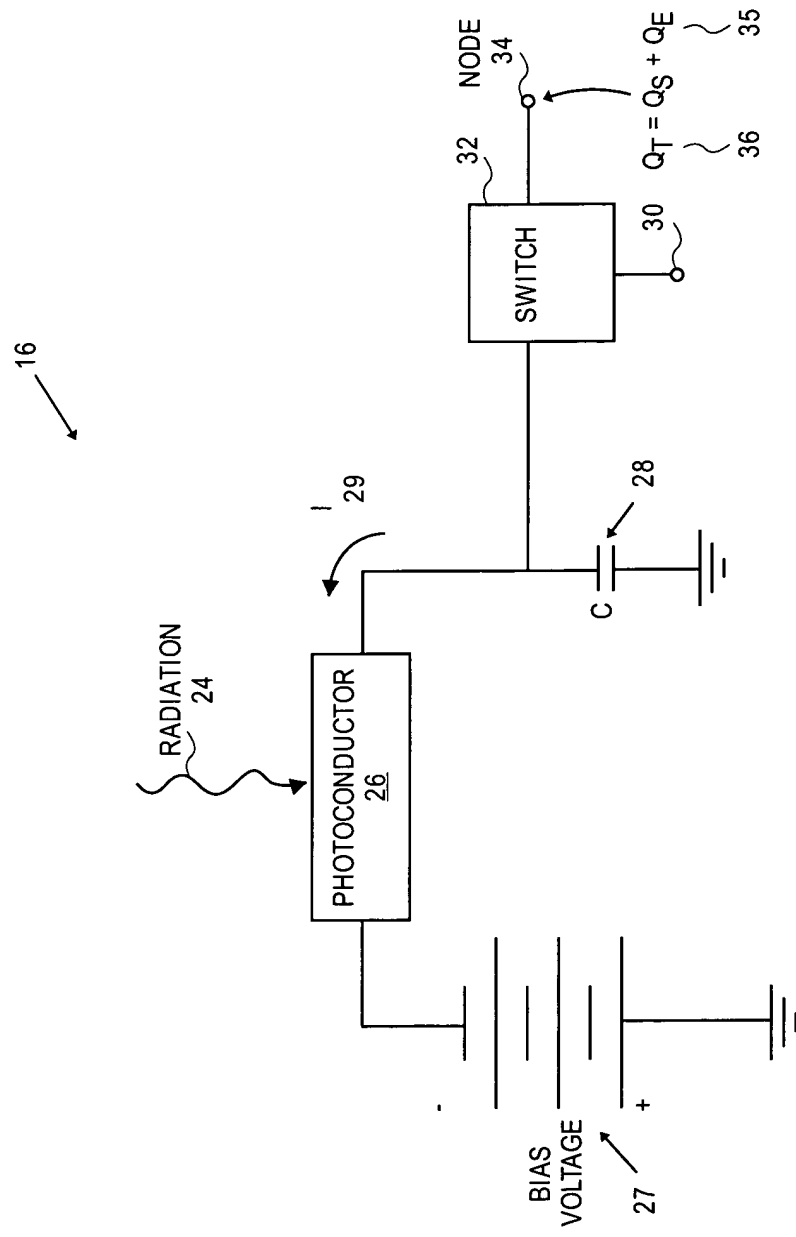


FIG. 2B

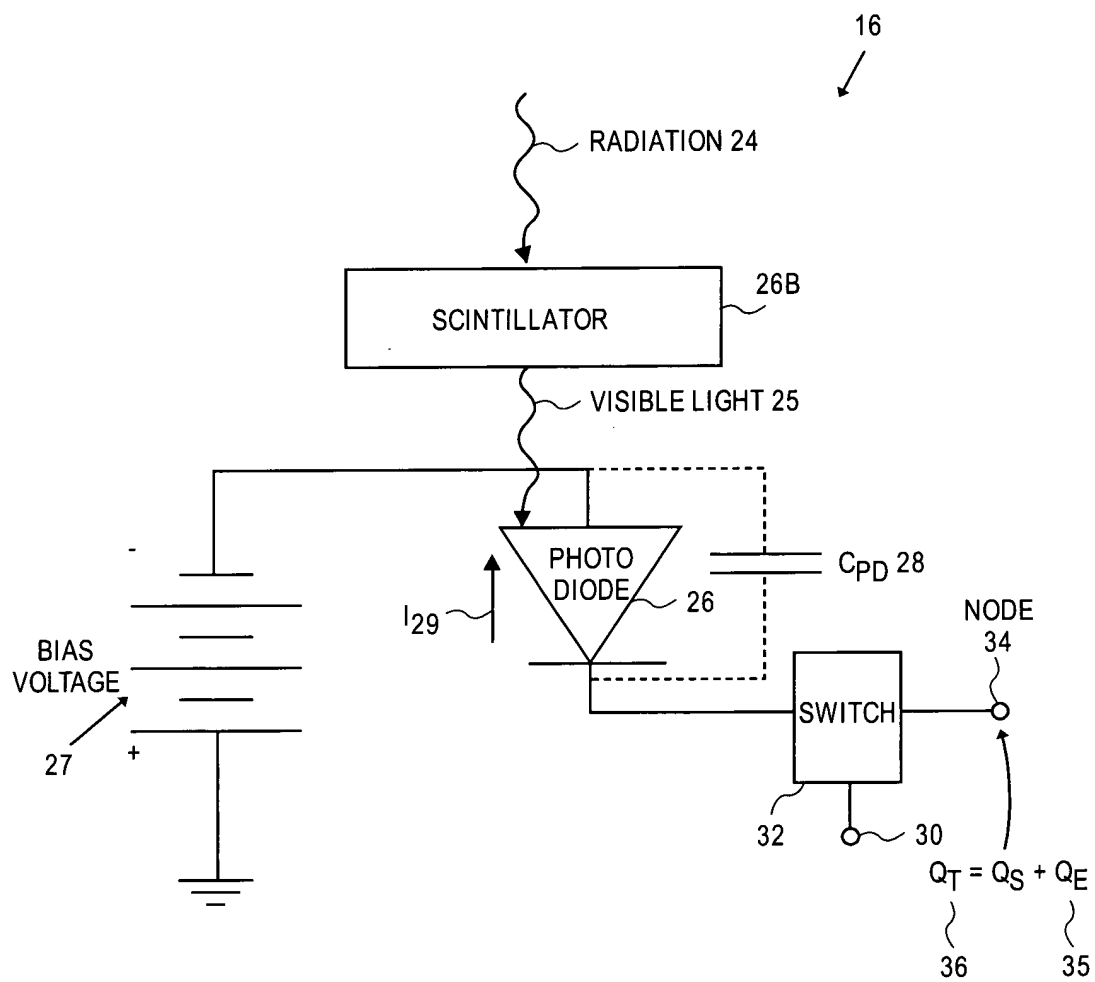


FIG. 2C

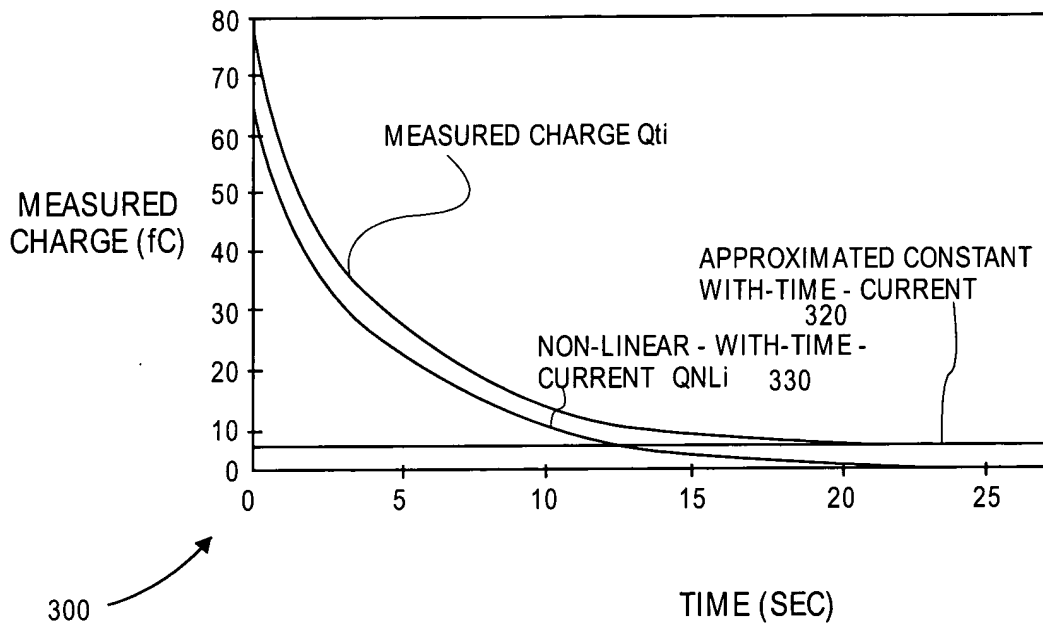


FIG. 3

$$I_E(t) = \frac{K}{t}, \quad Q_E(t) = \int_t^{t+T_i} I_E(t) dt$$

INTEGRATION
TIME

FIG. 4

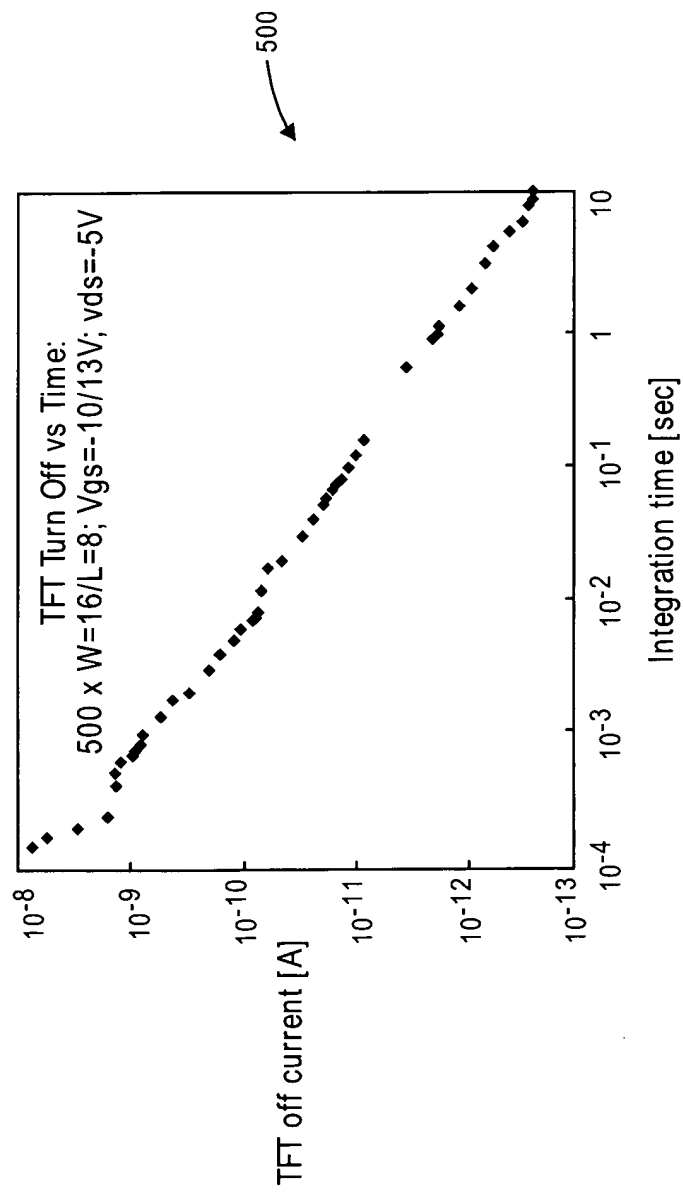


FIG. 5

$$\text{INTEGRATION TIME } T_i = \frac{1}{\text{FRAME RATE}}$$

FRAME RATE (FPS)	INTEGRATION TIME (SEC)
0.1	10
1	1
30	0.033
100	0.01

FIG. 6

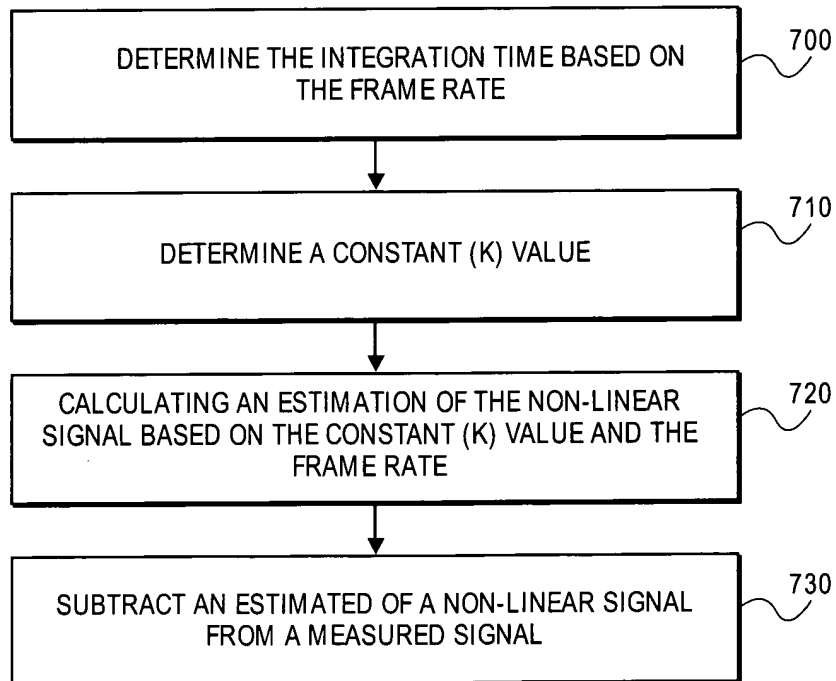


FIG. 7

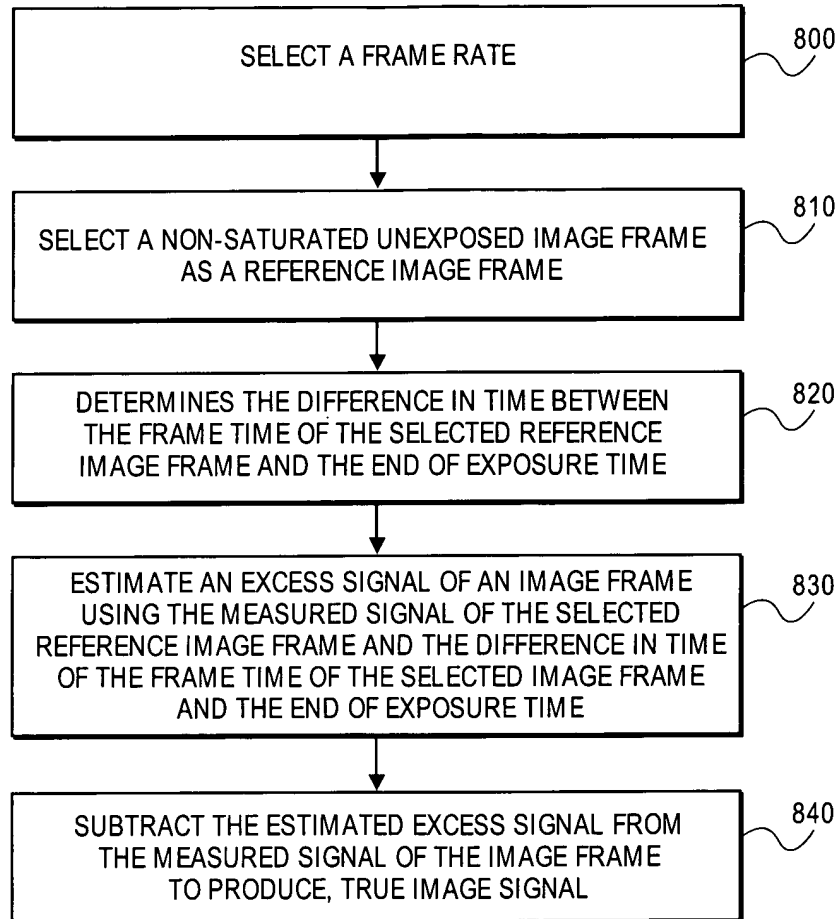


FIG. 8

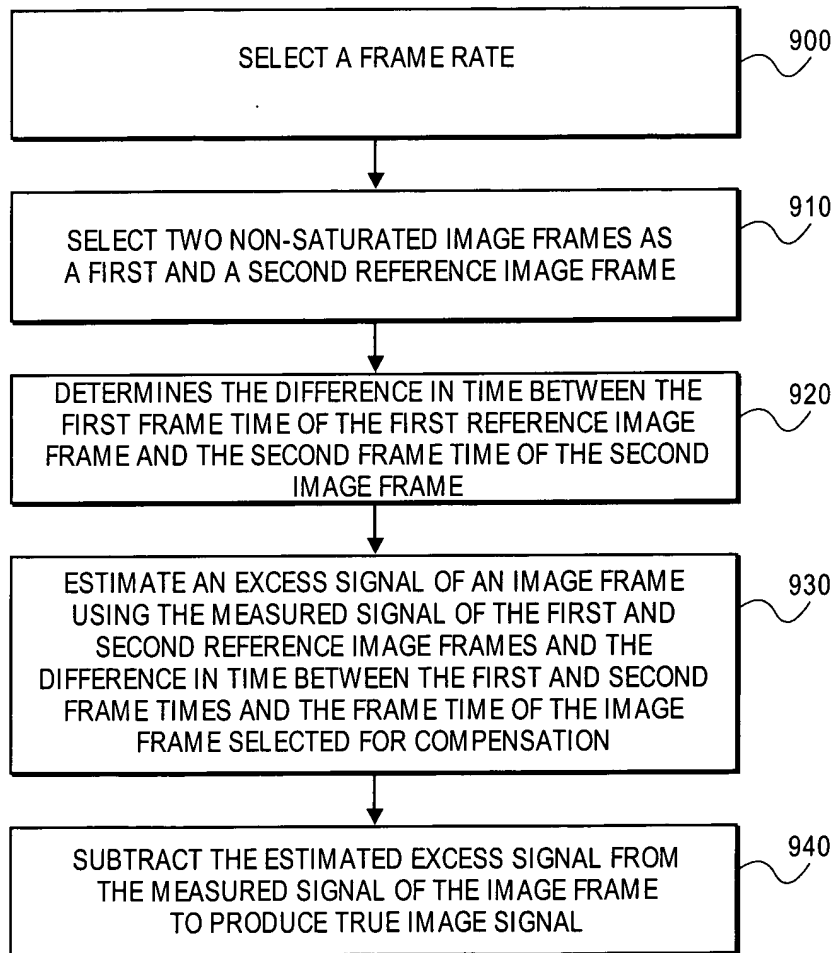
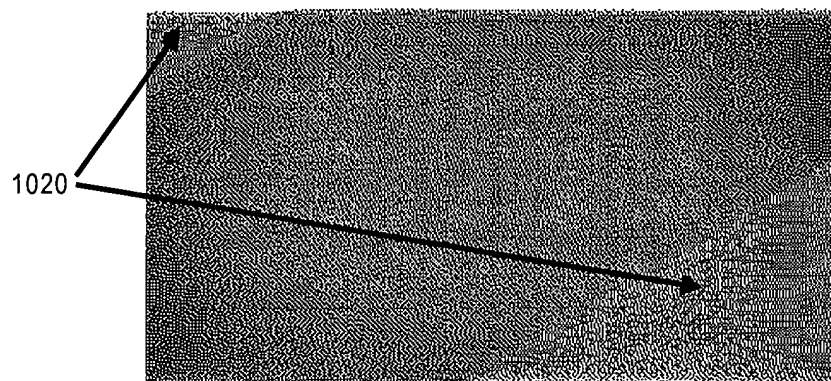
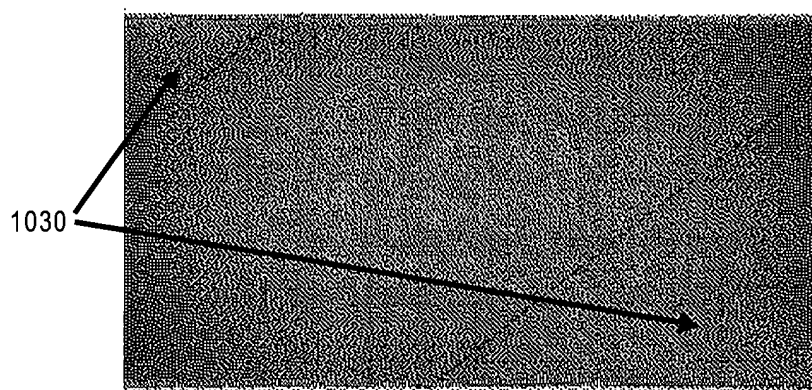


FIG. 9



UNCOMPENSATED
FRAME F 1000

FIG. 10A



COMPENSATED
FRAME F 1010

FIG. 10B

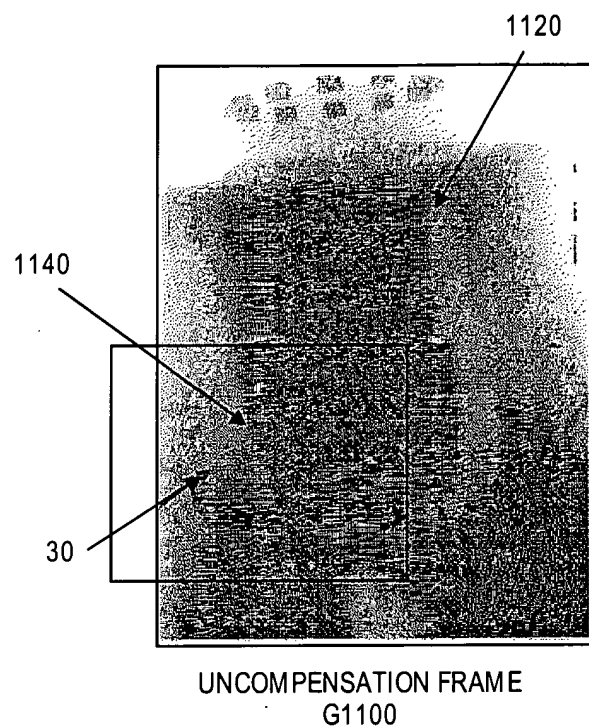


FIG. 11A

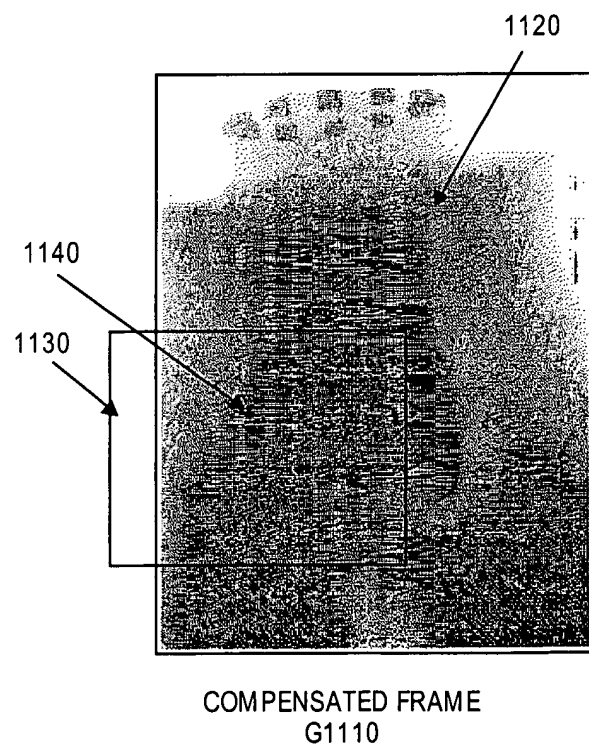


FIG. 11B

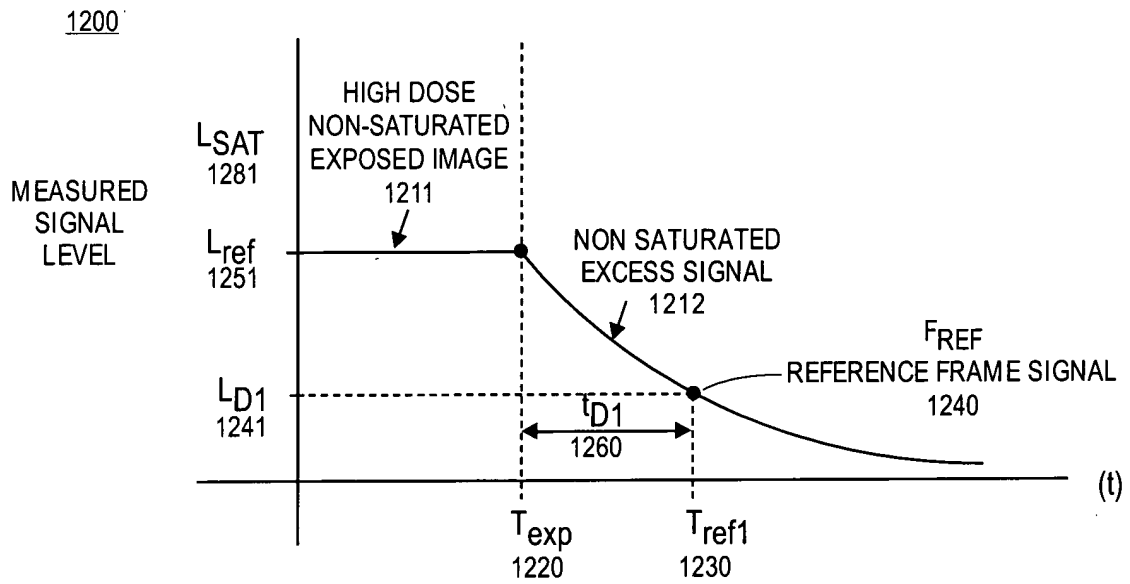


FIG. 12

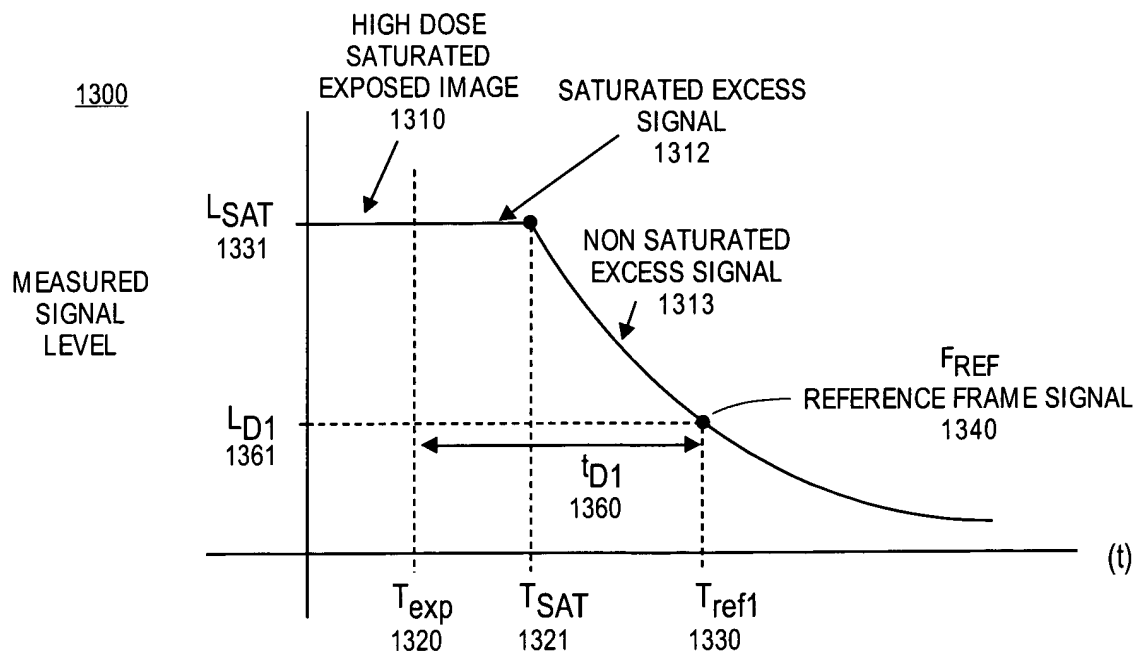


FIG. 13

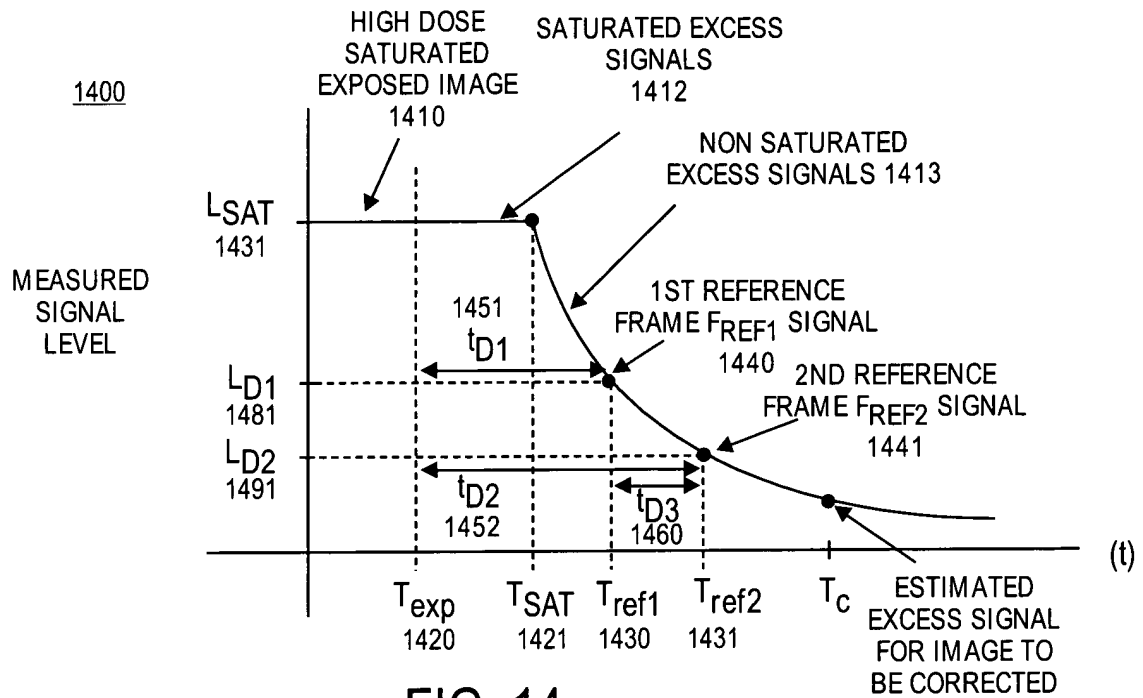


FIG. 14

1500

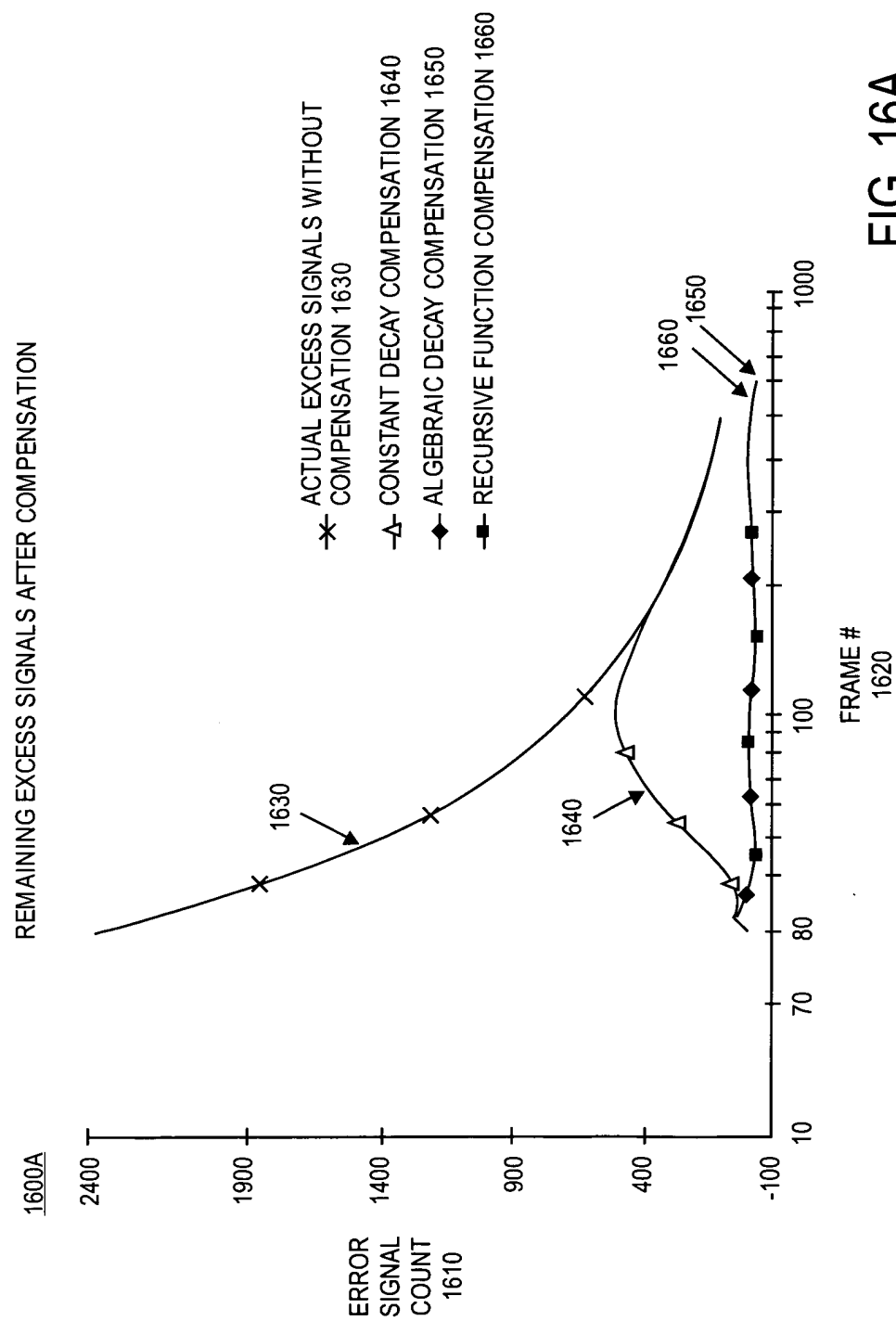
1510

FRAME #

	F_i	F_{i+1}	...	F_K
F_{Cj}	$F_{EC(i,j)}$	$F_{EC(i+2,j)}$...	$F_{EC(k,j)}$
F_{Cj+1}	$F_{EC(i,j+H)}$	\vdots	... PRE-CALCULATED EXCESS SIGNAL 1530	
	\vdots	\vdots		
F_{CL}	$F_{EC(i,L)}$			$F_{EC(K,L)}$

REFERENCE IMAGE FRAME SIGNAL 1520

FIG. 15



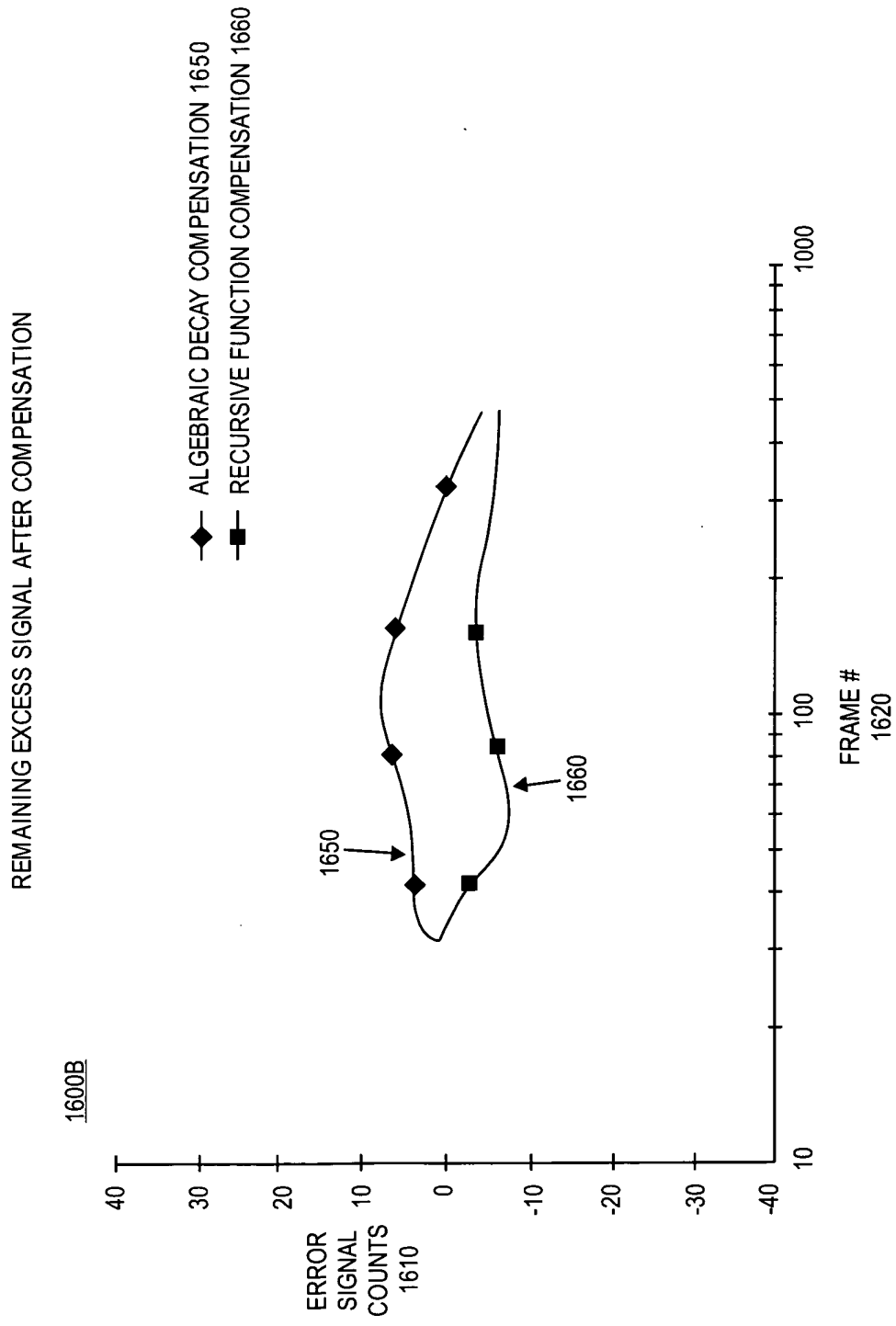


FIG. 16B

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